

RM PTO-1449

LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT

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NO.

SERIAL NO.

263/176

09/837,829

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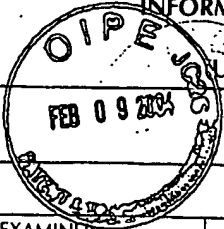
YING W. HSU

FILING DATE:

April 17, 2001

GROUP:

2633



IDS for 10/052,829

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
RAV	JB	AA	4,693,547	09/1987	Soref et al.	350	96.13
RAV	JB	AB	5,235,672	08/1993	Carsin	395	24
RAV	JB	AC	5,245,458	09/1993	Taylor	359	108
RAV	JB	AD	5,757,986	05/1998	Crampton et al.	385	2
RAV	JB	AE	5,761,350	06/1998	Koh	385	14
RAV	JB	AF	5,828,800	10/1998	Henry et al.	385	20
RAV	JB	AG	5,923,798	07/1999	Aksyuk et al.	385	19
RAV	JB	AH	5,990,473	11/1999	Dickey et al.	250	231.13
RAV	JB	AI	6,072,924	06/2000	Sato et al.	385	18
RAV	JB	AJ	6,137,941	10/2000	Robinson	385	140
RAV	JB	AK	6,148,124	11/2000	Aksyuk et al.	385	24
RAV	JB	AL	6,205,267 B1	03/2001	Aksyuk et al.	385	19

FOREIGN PATENT DOCUMENTS

OC 96922 v1

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
Ran JB	AM	EP 1,004,910 A2	05/2000	EP	G02B	6/35	X	

OC96922.v1

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Ryn Jp18w
Shelley Barber

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10/4/04

27 June 2002

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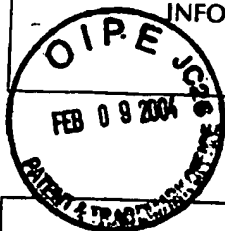
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

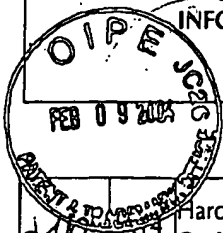
Examiner Initials*	Cite No.†	Include name of the author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	2
RM	A1	Benaissa, K.; and Nathan, A.; "Silicon Anti-Resonant Reflecting Optical Waveguides for Sensor Applications;" <i>Journal of Sensors and Actuators (A Physical)</i> , Vol. A65, 33-44, 1998	
RM	A2	Broekemoto, Takuji; Noguchi, Yutaka; et al.; "Polyimide Optical Waveguides With Multi-Fan-Out for Multi-Chip Module Application;" <i>Proceedings of the 27th European Solid-State Device Research Conference, France, September 22-24, 1997</i>	
RM	A3	Brown, K.S.; Taylor, B.J.; Dawson, J.M.; Hornak, L.A.; "Polymer Waveguide Co-integration With Microelectromechanical Systems (MEMS) for Integrated Optical Metrology;" <i>Proceedings of the SPIE (The International Society for Optical Engineering)</i> , Vol. 3276, 1998	
RM	A4	Burcham, Kevin E.; and Boyd, Joseph T.; "Freestanding, Micromachined, Multimode Silicon Optical Waveguides at $\lambda = 1.3 \mu\text{m}$ for Microelectromechanical System Technology;" <i>Journal of Applied Optics</i> , Vol. 37, No. 36, 20 December 1998	
RAI	A5	Churenkov, A.V.; "Silicon Micromechanical Optical Waveguide for Sensing and Modulation;" <i>Journal of Sensors and Actuators (A Physical)</i> , Vol. A57, No. 1, October 1996	
RAI	A6	Cook, J.P.D.; Este, G.O.; Shepherd, F.R.; et al.; "Stable, Low-Loss Optical Waveguides and Micromirrors Fabricated in Acrylate Polymers" <i>Applied Optics Journal</i> , Vol. 37, No. 7, March 1, 1998	
RM	A7	Cornett, Kimberly T.; Heritage, Jonathan P.; Solgaard, Olav; "Compact Optical Delay Line Based on Scanning Surface Micromachined Polysilicon Mirrors;" <i>2000 IEEE/LEOS International Conference on Optical MEMS, Kauai, Hawaii, August 21-24, 2000</i>	
RAI	A8	de Labachellerie, M.; Kaou, N.; et al.; "A Micromachined Connector for the Coupling of Optical Waveguides and Ribbon Optical Fibers;" <i>Journal of Sensors and Actuators (A Physical)</i> , Vol. A89, No. 1-2, March 20, 2001	
RAI	A9	Eng, Terry T.H.; Kan, Sidney C.; and Wong, George K.L.; "Voltage-Controlled Micromechanical SOI Optical Waveguides;" <i>IEEE TENCON, IEEE Region 10 International Conference on Microelectronics and VLSI - "Asia Pacific Microelectronics 2000" - Proceedings, 1995</i> 12/09/02 AB	
RAI	A10	Eng, Terry T.H.; Kan, Sidney C.; and Wong, George K.L.; "Surface-Micromachined Epitaxial Silicon Cantilevers as Movable Optical Waveguides on Silicon-on-Insulator Substrates;" <i>Journal on Sensors and Actuators A, Physical</i> , Vol. A49, No. 1-2, June 1995	
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RAI	A12	Gorecki, Christopher; "Optimization of Plasma-Deposited Silicon Oxinitride Films for Optical Channel Waveguides;" <i>Journal of Optics and Laser Engineering</i> , Vol. 33, No. 1, January 2000	
RAI	A13	Haronian, D.; "Bottlenecks of Opto-MEMS;" <i>SPIE Proceedings - Micro-Opto-Electro-Mechanical Systems, Glasgow, UK, May 22-23, 2000</i>	

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FORM PTO-1449	ATTY. DOCI NO. 263/176	SERIAL NO. 09/837,829
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	FILING DATE: April 17, 2001	GROUP: 2633



RAV	SB		Haronian, D.; "Displacement Sensing Using Geometrical Modulation in Reflection Mode (GM-RM) of Coupled Optical Waveguides;" <i>Journal of Micromechanics and Microengineering</i> , Vol. 8, No. 4, December 1998	
RAV	SB	A15	Haronian, D.; "Suspended Optical Waveguide With In-Plane Degree of Freedom or Microelectro-Mechanical Applications;" <i>Electronics Letters</i> , Vol. 34, No. 7, 2 nd April 1998	
RAV	SB	A16	Hoffmann, Martin; Kopka, Peter; and Voges, Edgar; "Thermooptical Digital Switch Arrays in Silica-on-Silicon With Defined Zero-Voltage State;" <i>Journal of Lightwave Technology</i> , Vol. 16, No. 3, March 1998	
RAV	SB	A17	Jin, Young-Hyun; Seo, Kyoung-Sun; et al.; "An SOI Optical Microswitch Integrated With Silicon Waveguides and Touch-down Micromirror Actuators;" 2000 IEEE/LEOS International Conference on Optical MEMS, 21-24 August, 2000	
RAV	SB	A18	Koyanagi, Mitsumasa; "Optical Interconnection Using Polyimide Waveguide for Multi-Chip Module;" <i>Proceedings of SPIE, Society of Photo-Optical Instrumentation Engineers</i> , San Jose, CA, 1996	
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RAV	SB	A20	Kuwana, Yasuhiro; Hirose, Akinori; Kurino, Hiroyuki; et al.; "Signal Propagation Characteristics in Polyimide Optical Waveguide With Micro-Mirrors for Optical Multichip Module;" <i>Japanese Journal of Applied Physics</i> , Vol. 38, No. 4B, April 1999	
RAV	SB	A21	Makihara, M.; "Microelectromechanical Intersecting Waveguide Optical Switch Based on Thermo-Capillarity;" 2000 IEEE/LEOS International Conference on Optical MEMS, Kauai, Hawaii, August 21-24, 2000	
RAV	SB	A22	Makihara, M.; Sato, Makoto; Shimokawa, Fusao; et al.; "Micromechanical Optical Switches Based on Thermocapillary Integrated in Waveguide Substrate;" <i>Journal of Lightwave Technology</i> , Vol. 17, No. 1, January 1999	
RAV	SB	A23	Makihara, M.; Shimokawa, F.; and Nishida, Y.; "Self-Holding Optical Waveguide Switch Controlled by Micromechanism;" <i>IEICE Trans. Electronics (Japan)</i> , Vol. E80-C, No. 2, February 1997	
RAV	SB	A24	Maoisel, J.; Guttman, J.; Huber, H.P.; et al.; "Optical Backplanes With Integrated Polymer Waveguides;" <i>Journal of Optical Engineering</i> , Vol. 39, No. 3, March 2000	12/09/02 SB
RAV	SB	A25	Maruo, Shoji; Ikuta, Koji; and Ninagawa, Toshihide; "Multi-Polymer Microstereolithography for Hybrid Opto-MEMS" has the same information as "Advanced Micro Stereolithography with Multi UV Polymers (System Development and Application to Three-Dimensional Optical Waveguides)," which is written in Japanese; <i>Journal of Transactions of the Institute of Electrical Engineers of Japan, Part E</i> , Vol. 120-E, No. 7, July 2000	
RAV	SB	A26	Matsumoto, Takuji; Kuwana, Yasuhiro; Hirose, Akinori; "Polyimide Optical Waveguide With Multi-Fan-Out for Multichip Module System;" <i>Proceedings from the Optoelectronic Interconnects V</i> , Vol. 3288, San Jose, CA January 28-29, 1998	
RAV	SB	A27	Matsumoto, Takuji; Fukuoka, Takeshi; Kurino, Hiroyuki; et al.; "Polyimide Optical Waveguide With Multi-Fan-Out for Multi-Chip Module Application;" <i>Proceedings of the 27th European Solid-State Device Research Conference</i> , France, September 22-24, 1997	

EXAMINER: <i>[Signature]</i>	DATE CONSIDERED: <i>6/4/02</i> <i>27 June 2002</i>
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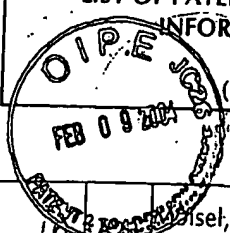
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 A28 Baisel, Jorg; Guttman; Joachim; Huber, Hans-Peter; "Optical Backplanes With Integrated Polymer Waveguides," *Journal of Optical Engineering*, Vol. 39, No. 3, March 2000

A29 Mueller, Raluca; Pavelescu; and Manea, Elena; "3D Microstructures Integrated With Optical Waveguides and Photodiodes on Silicon," *MELECOB 1998 9th Mediterranean Electromechanical Conference Proceedings*, Vol. 1; May 18-20, 1998

A30 Namba, Tohru; Uehara, Akihito; et al.; "High-Efficiency Micromirrors and Branched Optical Waveguides on Si Chips," *Japanese Journal of Applied Physics, Part 1*, Vol. 35, No. 2B, August 21-24, 1995

A31 Oillier, Eric; Chabrol, Claude; et al.; "1 x 8 Micro-Mechanical Switches Based on Moving Waveguides for Optical Fiber Network Switching," *2000 IEEE/LEOS International Conference on Optical MEMS*, August 21-24, 2000

A32 Ollier, Eric; and Mottier, P.; "Micro-Opto-Electro-Mechanical Systems: Recent Developments and LEIT's Activities," *Proceedings of the SPIE - The International Society for Optical Engineering*, Vol. 4076, May 22-24, 2000

A33 Shubin, I.; and Wa, P.L.K.; "Electrostatically Actuated 1 x 2 Micro-Mechanical Optic Switch," *Electronics Letters*, Vol. 37, No. 7; March 29, 2001

A34 Storgaard-Larsen, Torben; "Plasma-Enhanced Chemical Vapor Deposited Silicon Oxynitride Films for Optical Waveguide Bridges for Use in Mechanical Sensors," *Journal of the Electromechanical Society*, Vol. 144, No. 4, April 1997

A35 Voges, E.; Hoffmann, M.; "FB1 Optical Waveguides on Silicon Combined With Micromechanical Structures," *Advanced Applications of Lasers in Materials and Processing; LEOS Summer Optical Meeting, 1996; IEEE, Piscataway, New Jersey, 96TH8154*

A36 Yokoyama, S.; Nagata, T.; and Kuroda, Y.; et al.; "Optical Waveguides on Silicon Chips," *Journal of Vacuum Science & Technology A*, Vol. 13, No. 3, May-June 1995

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FORM PTO-1449

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703427.7SERIAL NO.
09/837,817LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENTAPPLICANT:
Ying W. HsuFILING DATE:
April 17, 2001GROUP:
2874

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U.S. PATENT DOCUMENTS

EXAMINER R INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
AB	AA	5,278,692	01/11/1994	Delapierre	359	236	09/04/1992
AB	AB	5,357,590	10/18/1994	Aumacher	385	33	04/07/1993
AB	AC	5,612,815	03/18/1997	Labeye et al.	359	320	01/11/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
AB	AD	58068702	04/23/1983	Japan (Abstract only)	C02F	1/00	X	
AB	AE	DE 3817035 C1	08/17/1989	Germany	G02B	6/24	X	
AB	AF	06109990	04/22/1994	Japan (Abstract only)	G02B	26/08	X	
AB	AG	WO 01/77142 A2	10/18/2001	WIPO	G02F	1/00	X	

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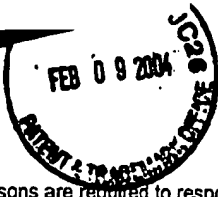
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				Application Number	09/837817 1b/676,628
				Filing Date	04/17/2004 9/30/03
				First Named Inventor	Hsu
				Group Art Unit	2874 2883
				Examiner Name	S. Pak Ryan Legisto
Sheet	1	of	1	Attorney Docket Number	703427.7

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publications of Cited Documents MM-DD-YYYY
		Number	Kind Code ²		
RAV	AA	6,101,299		Laor	8/8/2000

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publications of Cited Documents MM-DD-YYYY	T ⁶
		Office ³	Number ⁴	Kind Code ⁵			
RAV	BA	JP	10-227986		Horino et al.	8/25/1998	T

Examiner Signature	DOCSOC1:137855.1 <i>Ryan Legisto</i>	Date Considered	10/4/04
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